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1 CSSV: towards a realistic tool for statically detecting all buffer overflows in C
Nurit Dor, Michael Rodeh, Mooly Sagiv
May 2003 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 2003 conference on Programming language design and implementation**, Volume 38 Issue 5
Full text available: pdf(294.91 KB) Additional Information: full citation, abstract, references, citings, index terms

Erroneous string manipulations are a major source of software defects in C programs yielding vulnerabilities which are exploited by software viruses. We present **C** **S**tring **S**tatic **V**erifyer (CSSV), a tool that statically uncovers *all* string manipulation errors. Being a conservative tool, it reports all such errors at the expense of sometimes generating *false alarms*. Fortunately, only a small number of false alarms are reported, thereby proving that staticall ...

**Keywords**: abstract interpretation, buffer overflow, contracts, error detection, static analysis

2 Protocols: Performance analysis of the CONFIDANT protocol
Sonja Buchegger, Jean-Yves Le Boudec
June 2002 **Proceedings of the 3rd ACM international symposium on Mobile ad hoc networking & computing**
Full text available: pdf(187.16 KB) Additional Information: full citation, abstract, references, citings, index terms

Mobile ad-hoc networking works properly only if the participating nodes cooperate in routing and forwarding. However,it may be advantageous for individual nodes not to cooperate. We propose a protocol, called CONFIDANT, for making misbehavior unattractive; it is based on selective altruism and utilitarianism. It aims at detecting and isolating misbehaving nodes, thus making it unattractive to deny cooperation. Trust relationships and routing decisions are based on experienced, observed, or repor ...

**Keywords**: cooperation, fairness, mobile ad-hoc networks, reputation, robustness, routing, trust

3 Wide-area monitoring of mobile objects: Energy-efficient surveillance system using wireless sensor networks

Tian He, Sudha Krishnamurthy, John A. Stankovic, Tarek Abdelzaher, Liqian Luo, Radu Stoleru, Ting Yan, Lin Gu, Jonathan Hui, Bruce Krogh
June 2004 **Proceedings of the 2nd international conference on Mobile systems, applications, and services**

Full text available: pdf(850.60 KB) Additional Information: full citation, abstract, references, citings, index terms

The focus of surveillance missions is to acquire and verify information about enemy capabilities and positions of hostile targets. Such missions often involve a high element of risk for human personnel and require a high degree of stealthiness. Hence, the ability to deploy unmanned surveillance missions, by using wireless sensor networks, is of great practical importance for the military. Because of the energy constraints of sensor devices, such systems necessitate an energy-aware design to ensu ...

**Keywords**: energy conservation, sensor networks, tracking, wireless

4 Technical papers: DCAP: detecting misbehaving flows via collaborative aggregate policing

Chen-Nee Chuah, Lakshminarayanan Subramanian, Randy H. Katz
October 2003 **ACM SIGCOMM Computer Communication Review**, Volume 33 Issue 5

Full text available: pdf(281.15 KB) Additional Information: full citation, abstract, references

This paper proposes a detection mechanism called *DCAP* for a network provider to monitor incoming traffic and identify misbehaving flows without having to keep per-flow accounting at any of its routers. Misbehaving flows refer to flows that exceed their stipulated bandwidth limit. Through collaborative aggregate policing at both ingress and egress nodes, DCAP is able to quickly narrow the search to a candidate group that contains the misbehaving flows, and eventually identify the individua ...

**Keywords**: flow-level accounting, misbehaving flow detection, traffic policing

5 An environmental simulator for the FDNY computer aided dispatch system

John Mohan
October 1976 **Proceedings of the 2nd international conference on Software engineering**

Full text available: pdf(817.10 KB) Additional Information: full citation, abstract, references, index terms

FDNY's MICS computer-aided dispatch system is designed about dual PDP 11/45s and supported in fallback by dual INTEL 8080 micro-processors. The computer processes alarms, assigns available units, notifies these units by voice and hard copy terminals located in the fire stations, monitors status changes of firefighting units and incidents, and dynamically adjusts firefighting coverage for maximum effect. This paper describes the MICS environmental simulator that was used to test a ...

**Keywords**: Environmental simulator, Load generation, Performance monitoring, Scaffolding, System profile, Utilization

6 Implementation of a diagnostic and troubleshooting multi-agent system for cellular networks

Mahamat Guiagoussou, Said Soulhi
August 1999 **International Journal of Network Management**, Volume 9 Issue 4

Full text available: pdf(570.61 KB) Additional Information: full citation, abstract, references, index terms

This article presents the implementation of a maintenance application for cellular switching system using the multi-agent paradigm. The main philosophy behind the design of the

multi-agent system is based on the TMN framework, where each agent can mapped with one or several TMN functional blocks. Copyright © 1999 John Wiley & Sons, Ltd.

**7** Network performance reporting

K. Terplan

April 1982 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the Computer Network Performance Symposium**, Volume 11 Issue 1

Full text available: pdf(655.20 KB) Additional Information: full citation, abstract, references, index terms

Managing networks using Network Administration Centers is increasingly considered. After introducing the information demand for operational, tactical and strategic network management the paper is dealing with the investigation of the applicability of tools and techniques for these areas. Network monitors and software problem determination tools are investigated in greater detail. Also implementation details for a multihost-multinode network including software and hardware tools combined by ...

**8** A model solution for the C³I Domain

C. Plinta, K. Lee

January 1989 **Proceedings of the conference on Tri-Ada '89: Ada technology in context: application, development, and deployment**

Full text available: pdf(1.06 MB) Additional Information: full citation, abstract, citings, index terms

This paper1 briefly describes a specific portion of recent work performed by the Domain Specific Software Architecture (DSSA) Project at the Software Engineering Institute (SEI) — the development and use of a model solution for message translation and validation in the C3I domain. Based on this experience and our involvement with programs in the C3I domain, future considerations are described. These considerations involve ...

**9** SPARSE—an expert system for alarm processing and operator assistance in substations control centers

Zita A. Vale, M. Fernanda Fernandes, A. Machado e Moura, Albino Marques

September 1994 **ACM SIGAPP Applied Computing Review**, Volume 2 Issue 2

Full text available: pdf(569.17 KB) Additional Information: full citation, abstract, index terms

In case of occurrence of an incident in an electrical network, several hundreds of messages per minute may be presented to Control Center operators. This makes very difficult the identification of the fault and to decide about the required actions in order to minimize the consequences of the incident and to restore the service.This paper describes an expert system named SPARSE that provides on-line assistance to the operators of Substation Control Centers (SCC) of the portuguese electrical trans ...

**Keywords**: alarm messages, control centers, expert system, temporal reasoning

**10** Performance Evaluation of a Software Architecture: A Case Study

P. Inverardi, C. Mangano, F. Russo, S. Balsamo

April 1998 **Proceedings of the 9th International Workshop on Software Specification and Design**

Full text available: pdf(222.77 KB) Publisher Site Additional Information: full citation

**11** Ecxpert: exploiting event correlation in telecommunications

Yossi Nygate

September 1994 **ACM SIGAPP Applied Computing Review**, Volume 2 Issue 2

Full text available: pdf(800.69 KB) Additional Information: full citation, abstract, index terms

Today's competitive market place has forced the telecommunications industry to improve their service and reliability. One step that telecommunications companies have taken to reduce network failures is the installation of operations centers to collect data from network elements. These centers are staffed by network managers who monitor network activity by correlating alarms across various operational disciplines (switch, facility, traffic) and relating them to a common cause. Accurate analysis i ...

**Keywords**: C++, integrated network management techniques, meta-programming, prolog

12 Real-time protocol analysis for detecting link-state routing protocol attacks

Ho-Yen Chang, S. Felix Wu, Y. Frank Jou

February 2001 **ACM Transactions on Information and System Security (TISSEC)**, Volume 4 Issue 1

Full text available: pdf(252.10 KB) Additional Information: full citation, abstract, references, citings, index terms

A real-time knowledge-based network intrusion-detection model for a link-state routing protocol is presented for the OSPF protocol. This model includes three layers: a data process layer to parse packets and dispatch data; and event abstractor to abstract predefined real-time events for the link-state routing protocol; and an extended timed finite state machine to express the real-time behavior of the protocol engine and to ...

**Keywords**: OSPF attacks, event correlation, knowledge-based IDS, link-state routing protocol security, real-time misuse intrusion detection, real-time network protocol analysis, timed finite state machine

13 The network control assistant (NCA), a real-time prototype expert system for network management

Perry M. Kosieniak, Victor Mathis, Michael St. Jacques, Delano Stevens

June 1988 **Proceedings of the first international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 1**

Full text available: pdf(846.45 KB) Additional Information: full citation, abstract, references, citings, index terms

Prototype network management software supported by a real-time expert system to monitor and control the public telephone voice network is described. This system, called the Network Control Assistant (NCA), was mostly written in Prolog on an IBM PC/AT. The human interface for NCA consists of an efficiently designed hierarchy of color enhanced screens with user selected options. The responsive advisory system contains about 60 customized rules with features intended to enhance real-time perfo ...

14 A model for the local area of a data communication network software organization

P. T. Wilkinson

October 1969 **Proceedings of the first ACM symposium on Problems in the optimization of data communications systems**

Full text available: pdf(1.31 MB) Additional Information: full citation, abstract, references, citings, index terms

A general purpose store-and-forward data communication network is under development at NPL. The background to this work is described in companion papers(1)(2) which also detail the hardware environment in which the software of the central message switching computer (MSC) operates. A user of this system sees it as a star-connected network by means of

which his terminal may exchange data with any other terminal via the MSC. Because this centre is stored-program ...

**15** An explorative journey from architectural tests definition down to code tests execution
Antonia Bertolino, Paola Inverardi, Henry Muccini
July 2001 **Proceedings of the 23rd International Conference on Software Engineering**

Full text available: pdf(466.50 KB) Publisher Site Additional Information: full citation, abstract, references, citings, index terms

*Our research deals with the use of the Software Architecture (SA) as a reference model for the conformance testing of the implemented system with respect to its architectural specification, at the integration test level. Having formerly identified an approach to derive architectural test plans, we investigate here the practical meaning of a high level test case defined in terms of architectural processes and messages, such as the ones derived by our approach. Indeed, establishing a relatio ...*

**16** Intrusion detection techniques for mobile wireless networks
Yongguang Zhang, Wenke Lee, Yi-An Huang
September 2003 **Wireless Networks**, Volume 9 Issue 5

Full text available: pdf(164.73 KB) Additional Information: full citation, abstract, references, index terms

The rapid proliferation of wireless networks and mobile computing applications has changed the landscape of network security. The traditional way of protecting networks with firewalls and encryption software is no longer sufficient and effective. We need to search for new architecture and mechanisms to protect the wireless networks and mobile computing application. In this paper, we examine the vulnerabilities of wireless networks and argue that we must include intrusion detection in the securit ...

**Keywords**: anomaly detection, cooperative detection, intrusion detection, intrusion response, mobile ad-hoc networks

**17** Testing races in parallel programs with an OtOt strategy
Suresh K. Damodaran-Kamal, Joan M. Francioni
August 1994 **Proceedings of the 1994 ACM SIGSOFT international symposium on Software testing and analysis**

Full text available: pdf(1.13 MB) Additional Information: full citation, references, citings, index terms

**18** Illustrative risks to the public in the use of computer systems and related technology
Peter G. Neumann
January 1996 **ACM SIGSOFT Software Engineering Notes**, Volume 21 Issue 1

Full text available: pdf(2.54 MB) Additional Information: full citation

**19** Sensor networks: Reputation-based framework for high integrity sensor networks
Saurabh Ganeriwal, Mani B. Srivastava
October 2004 **Proceedings of the 2nd ACM workshop on Security of ad hoc and sensor networks**

Full text available: pdf(468.08 KB) Additional Information: full citation, abstract, references, index terms

The traditional approach of providing network security has been to borrow tools from cryptography and authentication. However, we argue that the conventional view of security based on cryptography alone is not sufficient for the unique characteristics and novel

misbehaviors encountered in sensor networks. Fundamental to this is the observation that cryptography cannot prevent malicious or non-malicious insertion of data from internal adversaries or faulty nodes.

We believe that in gen ...

**Keywords**: bayesian formulation, cryptography, framework, reputation, security, sensor networks, trust

**20** Surviving threats: Alliance formation for DDoS defense

Jelena Mirkovic, Max Robinson, Peter Reiher

August 2003 **Proceedings of the 2003 workshop on New security paradigms**

Full text available: pdf(947.99 KB) Additional Information: full citation, abstract, references, index terms

Currently, there is no effective defense against large-scale distributed denial-of-service (DDoS) attacks. While numerous DDoS defense systems exist that offer excellent protection from specific attack types and scenarios, they can frequently be defeated by an attacker aware of their weaknesses. A necessary requirement for successful DDoS defense is wide deployment, but none of these systems can guarantee wide deployment simply because deployment depends more on market and social aspects than on ...

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*Jankauskas, L.; Landesberg, M.; Spector, D.; Meyer, C.;*
Communications, IEEE Transactions on [legacy, pre - 1988] , Volume: 28 , Iss 9 , Sep 1980
Pages:1516 - 1523

[Abstract] [PDF Full-Text (840 KB)] **IEEE JNL**

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2 **Towards intelligent and mobile systems for early detection and interpretation of cardiological syndromes**
*Rubel, P.; Gouaux, F.; Fayn, J.; Assanelli, D.; Cuce, A.; Edenbrandt, L.; Malos C.;*
Computers in Cardiology 2001 , 23-26 Sept. 2001
Pages:193 - 196

[Abstract] [PDF Full-Text (373 KB)] **IEEE CNF**

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3 **A monitoring and diagnostics system for a plasma etching cell**
*Moyne, J.R.; Etemad, H.; Najafi, N.;*
Advanced Semiconductor Manufacturing Conference and Workshop, 1991. ASI 91 Proceedings. IEEE/SEMI 1991 , 21-23 Oct. 1991
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1 **An experiment in standardizing software for a monitoring and contr device for power stations**
*Amenta, C.; Caibis, A.; Valenti, A.;*
Telecommunications Energy Conference, 1990. INTELEC '90., 12th International , 21-25 Oct. 1990
Pages:377 - 385

[Abstract] [PDF Full-Text (516 KB)] **IEEE CNF**

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1 **Investigation for a global AVL system**
*Papadoglou, N.; Stipidis, E.;*
Intelligent Transportation Systems, IEEE Transactions on , Volume: 2 , Issue: 3 , Sept. 2001
Pages:121 - 126

[Abstract] [PDF Full-Text (136 KB)] **IEEE JNL**

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2 **Towards more intelligent network management: service-oriented proactive fault management using KDD techniques**
*Liu Kangping; Li Zengzhi; Wang Zhiwen; Zhang Jing; Tang Yazhe;*
Intelligent Control and Automation, 2000. Proceedings of the 3rd World Congr on , Volume: 1 , 28 June-2 July 2000
Pages:715 - 718 vol.1

[Abstract] [PDF Full-Text (332 KB)] **IEEE CNF**

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3 **Technical Control of the Digital Transmission Facilities of the Defens Communications System**
*Jankauskas, L.; Landesberg, M.; Spector, D.; Meyer, C.;*
Communications, IEEE Transactions on [legacy, pre - 1988] , Volume: 28 , Is: 9 , Sep 1980
Pages:1516 - 1523

[Abstract] [PDF Full-Text (840 KB)] **IEEE JNL**

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4 **Remote monitoring and inspection of robotic manufacturing cells**
*Norberto Pires, J.;*
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Pages:551 - 554 vol.1

[Abstract] [PDF Full-Text (372 KB)] IEEE CNF

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5 **A case study of IP network monitoring using wireless mobile device**
*Xueshan Shan; Li, J.J.;*
Computer Communications and Networks, 2001. Proceedings. Tenth Internati
Conference on , 15-17 Oct. 2001
Pages:590 - 593

[Abstract] [PDF Full-Text (184 KB)] IEEE CNF

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6 **Towards intelligent and mobile systems for early detection and interpretation of cardiological syndromes**
*Rubel, P.; Gouaux, F.; Fayn, J.; Assanelli, D.; Cuce, A.; Edenbrandt, L.; Malos C.;*
Computers in Cardiology 2001 , 23-26 Sept. 2001
Pages:193 - 196

[Abstract] [PDF Full-Text (373 KB)] IEEE CNF

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7 **MPS VAX monitor and control software architecture**
*Allison, S.; Spencer, N.; Underwood, K.; VanOlst, D.; Zelanzy, M.;*
Particle Accelerator Conference, 1993., Proceedings of the 1993 , 17-20 May
Pages:1884 - 1886 vol.3

[Abstract] [PDF Full-Text (300 KB)] IEEE CNF

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8 **A monitoring and diagnostics system for a plasma etching cell**
*Moyne, J.R.; Etemad, H.; Najafi, N.;*
Advanced Semiconductor Manufacturing Conference and Workshop, 1991. ASI
91 Proceedings. IEEE/SEMI 1991 , 21-23 Oct. 1991
Pages:48 - 53

[Abstract] [PDF Full-Text (580 KB)] IEEE CNF

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9 **An experiment in standardizing software for a monitoring and contr device for power stations**
*Amenta, C.; Caibis, A.; Valenti, A.;*
Telecommunications Energy Conference, 1990. INTELEC '90., 12th International , 21-25 Oct. 1990
Pages:377 - 385

[Abstract] [PDF Full-Text (516 KB)] IEEE CNF

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10 **Expert systems for telemetry processing [of power system data]**
*Esp, D.G.; Ekwue, A.O.; Macqueen, J.F.;*
Expert Systems in the Field of Protection and Control, IEE Colloquium on , 26 1993
Pages:2/1 - 2/4

[Abstract] [PDF Full-Text (256 KB)] IEE CNF

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| S12 | 266 | hamalainen.in. | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2004/05/10 12:45 |
| S13 | 443 | henriksson.in. | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2004/05/10 12:45 |
| S14 | 6 | hamalainen.in. and henriksson.in. | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2004/05/12 10:02 |

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| S16 | 3756 | pattern$1 same recogni$4 same classif$7 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/05/10 13:30 |
| S17 | 14510 | production adj yield | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/05/10 13:30 |
| S18 | 39416 | produc$4 adj yield$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/05/10 13:31 |
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| S20 | 9765 | knowledge adj base$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/05/10 13:38 |

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| S28 | 2 | (US-5237508-$.DID. US-4958292-$.DID. US-4802094-$.DID. US-6269354-$.DID. US-6266668-$.DID. US-6262678-$.DID. US-6249755-$.DID. US-6216119-$.DID. US-5892808-$.DID. US-5835902-$.DID. US-5761383-$.DID. US-5748847-$.DID. US-5586033-$.DID. US-5528516-$.DID. US-5467428-$.DID. US-5448684-$.DID. US-5390261-$.DID. US-5376963-$.DID. US-5355435-$.DID. US-5253329-$.DID. US-5251268-$.DID. US-5214745-$.DID. US-4876731-$.DID. WO-0072449$.did. WO-9854653$. did. WO-9843159$.did. US-4874963-$.DID. US-4642782-$.DID. US-4660166-$.DID.) and (knowledge adj base$1) | US-PGPUB; USPAT; EPO | OR | ON | 2004/05/10 17:34 |
| S29 | 33 | (artificial adj neural adj network) and (pattern$1 same recogni$4 same classif$7) and (expert$1 adj system$1) and (knowledge adj base$1) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/05/12 10:02 |

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| S30 | 0 | (US-5237508-$.DID. US-4958292-$.DID. US-4802094-$.DID. US-6269354-$.DID. US-6266668-$.DID. US-6262678-$.DID. US-6249755-$.DID. US-6216119-$.DID. US-5892808-$.DID. US-5835902-$.DID. US-5761383-$.DID. US-5748847-$.DID. US-5586033-$.DID. US-5528516-$.DID. US-5467428-$.DID. US-5448684-$.DID. US-5390261-$.DID. US-5376963-$.DID. US-5355435-$.DID. US-5253329-$.DID. US-5251268-$.DID. US-5214745-$.DID. US-4876731-$.DID. WO-0072449$.did. WO-9854653$. did. WO-9843159$.did. US-4874963-$.DID. US-4642782-$.DID. US-4660166-$.DID.) and ((artificial adj neural adj network) and (pattern$1 same recogni$4 same classif$7) and (expert$1 adj system$1) and (knowledge adj base$1)) | US-PGPUB; USPAT; EPO | OR | ON | 2004/05/10 13:41 |
| S31 | 0 | hamalainen.in. and henriksson.in. and ((artificial adj neural adj network) and (pattern$1 same recogni$4 same classif$7) and (expert$1 adj system$1) and (knowledge adj base$1)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/05/10 13:52 |
| S32 | 1472 | (expert$1 adj system$1) same (knowledge adj base$1) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/05/10 13:56 |
| S33 | 156 | (artificial adj neural adj network) same (pattern$1 same recogni$4 same classif$7) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/05/10 13:56 |
| S34 | 94 | (artificial adj neural adj network) same (expert$1 adj system$1) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/05/10 13:56 |

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| S35 | 67 | (pattern$1 same recogni$4 same classif$7) same (expert$1 adj system$1) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/05/10 13:56 |
| S36 | 12 | ((expert$1 adj system$1) same (knowledge adj base$1)) and ((artificial adj neural adj network) same (pattern$1 same recogni$4 same classif$7)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/05/12 10:02 |
| S37 | 2 | (((expert$1 adj system$1) same (knowledge adj base$1)) and ((artificial adj neural adj network) same (pattern$1 same recogni$4 same classif$7))) and (produc$4 adj yield$1) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/05/10 14:00 |
| S38 | 24 | (US-5237508-$.DID. US-4958292-$.DID. US-4802094-$.DID. US-6269354-$.DID. US-6266668-$.DID. US-6262678-$.DID. US-6249755-$.DID. US-6216119-$.DID. US-5892808-$.DID. US-5835902-$.DID. US-5761383-$.DID. US-5748847-$.DID. US-5586033-$.DID. US-5528516-$.DID. US-5467428-$.DID. US-5448684-$.DID. US-5390261-$.DID. US-5376963-$.DID. US-5355435-$.DID. US-5253329-$.DID. US-5251268-$.DID. US-5214745-$.DID. US-4876731-$.DID. WO-0072449$.did. WO-9854653$.did. WO-9843159$.did. US-4874963-$.DID. US-4642782-$.DID. US-4660166-$.DID.) and produc$4 | US-PGPUB; USPAT; EPO | OR | ON | 2004/05/10 14:32 |

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| S39 | 6 | (US-5237508-$.DID. US-4958292-$.DID. US-4802094-$.DID. US-6269354-$.DID. US-6266668-$.DID. US-6262678-$.DID. US-6249755-$.DID. US-6216119-$.DID. US-5892808-$.DID. US-5835902-$.DID. US-5761383-$.DID. US-5748847-$.DID. US-5586033-$.DID. US-5528516-$.DID. US-5467428-$.DID. US-5448684-$.DID. US-5390261-$.DID. US-5376963-$.DID. US-5355435-$.DID. US-5253329-$.DID. US-5251268-$.DID. US-5214745-$.DID. US-4876731-$.DID. WO-0072449$.did. WO-9854653$. did. WO-9843159$.did. US-4874963-$.DID. US-4642782-$.DID. US-4660166-$.DID.) and production | US-PGPUB; USPAT; EPO | OR | ON | 2004/05/10 15:09 |
| S40 | 0 | 395/21.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/05/10 15:06 |
| S41 | 0 | 395/23.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/05/10 15:06 |
| S42 | 0 | 364/*.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/05/10 15:06 |
| S43 | 0 | "364"/$.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/05/10 15:08 |
| S44 | 492 | 706/20.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/05/12 10:04 |

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| S45 | 5 | (US-5237508-$.DID. US-4958292-$.DID. US-4802094-$.DID. US-6269354-$.DID. US-6266668-$.DID. US-6262678-$.DID. US-6249755-$.DID. US-6216119-$.DID. US-5892808-$.DID. US-5835902-$.DID. US-5761383-$.DID. US-5748847-$.DID. US-5586033-$.DID. US-5528516-$.DID. US-5467428-$.DID. US-5448684-$.DID. US-5390261-$.DID. US-5376963-$.DID. US-5355435-$.DID. US-5253329-$.DID. US-5251268-$.DID. US-5214745-$.DID. US-4876731-$.DID. WO-0072449$.did. WO-9854653$. did. WO-9843159$.did. US-4874963-$.DID. US-4642782-$.DID. US-4660166-$.DID.) and 706/20. ccls. | US-PGPUB; USPAT; EPO | OR | ON | 2004/05/10 15:14 |
| S46 | 0 | hamalainen.in. and henriksson.in. and 706/20.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/05/10 15:14 |
| S47 | 2 | (artificial adj neural adj network) and (pattern$1 same recogni$4 same classif$7) and (expert$1 adj system$1) and (knowledge adj base$1) and 706/20.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/05/10 15:14 |
| S48 | 1 | ((expert$1 adj system$1) same (knowledge adj base$1)) and ((artificial adj neural adj network) same (pattern$1 same recogni$4 same classif$7)) and 706/20.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/05/10 15:14 |
| S49 | 28292 | "702"/$.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/05/10 15:13 |
| S50 | 557 | 702/183.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/05/10 15:13 |

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| S51 | 1 | (US-5237508-$.DID. US-4958292-$.DID. US-4802094-$.DID. US-6269354-$.DID. US-6266668-$.DID. US-6262678-$.DID. US-6249755-$.DID. US-6216119-$.DID. US-5892808-$.DID. US-5835902-$.DID. US-5761383-$.DID. US-5748847-$.DID. US-5586033-$.DID. US-5528516-$.DID. US-5467428-$.DID. US-5448684-$.DID. US-5390261-$.DID. US-5376963-$.DID. US-5355435-$.DID. US-5253329-$.DID. US-5251268-$.DID. US-5214745-$.DID. US-4876731-$.DID. WO-0072449$.did. WO-9854653$.did. WO-9843159$.did. US-4874963-$.DID. US-4642782-$.DID. US-4660166-$.DID.) and 702/183.ccls. | US-PGPUB; USPAT; EPO | OR | ON | 2004/05/10 15:14 |
| S52 | 0 | hamalainen.in. and henriksson.in. and 702/183.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/05/10 15:14 |
| S53 | 1 | (artificial adj neural adj network) and (pattern$1 same recogni$4 same classif$7) and (expert$1 adj system$1) and (knowledge adj base$1) and 702/183.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/05/10 15:14 |
| S54 | 0 | ((expert$1 adj system$1) same (knowledge adj base$1)) and ((artificial adj neural adj network) same (pattern$1 same recogni$4 same classif$7)) and 702/183.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/05/10 15:14 |

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| S55 | 15 | (US-5237508-$.DID. US-4958292-$.DID. US-4802094-$.DID. US-6269354-$.DID. US-6266668-$.DID. US-6262678-$.DID. US-6249755-$.DID. US-6216119-$.DID. US-5892808-$.DID. US-5835902-$.DID. US-5761383-$.DID. US-5748847-$.DID. US-5586033-$.DID. US-5528516-$.DID. US-5467428-$.DID. US-5448684-$.DID. US-5390261-$.DID. US-5376963-$.DID. US-5355435-$.DID. US-5253329-$.DID. US-5251268-$.DID. US-5214745-$.DID. US-4876731-$.DID. WO-0072449$.did. WO-9854653$. did. WO-9843159$.did. US-4874963-$.DID. US-4642782-$.DID. US-4660166-$.DID.) and threshold | US-PGPUB; USPAT; EPO | OR | ON | 2004/05/10 19:50 |
| S56 | 8842 | yield$1 same threshold | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/05/10 19:50 |

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| S57 | 1 | (US-5237508-$.DID. US-4958292-$.DID. US-4802094-$.DID. US-6269354-$.DID. US-6266668-$.DID. US-6262678-$.DID. US-6249755-$.DID. US-6216119-$.DID. US-5892808-$.DID. US-5835902-$.DID. US-5761383-$.DID. US-5748847-$.DID. US-5586033-$.DID. US-5528516-$.DID. US-5467428-$.DID. US-5448684-$.DID. US-5390261-$.DID. US-5376963-$.DID. US-5355435-$.DID. US-5253329-$.DID. US-5251268-$.DID. US-5214745-$.DID. US-4876731-$.DID. WO-0072449$.did. WO-9854653$. did. WO-9843159$.did. US-4874963-$.DID. US-4642782-$.DID. US-4660166-$.DID.) and (yield$1 same threshold) | US-PGPUB; USPAT; EPO | OR | ON | 2004/05/10 19:50 |
| S58 | 0 | hamalainen.in. and henriksson.in. and (yield$1 same threshold) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/05/10 19:56 |
| S59 | 6 | (artificial adj neural adj network) and (pattern$1 same recogni$4 same classif$7) and (expert$1 adj system$1) and (knowledge adj base$1) and (yield$1 same threshold) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/05/10 19:57 |
| S60 | 6 | ((expert$1 adj system$1) same (knowledge adj base$1)) and ((artificial adj neural adj network) same (pattern$1 same recogni$4 same classif$7)) and (yield$1 same threshold) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/05/10 19:57 |
| S61 | 15 | 706/20.ccls. and (yield$1 same threshold) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/11/23 17:14 |

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| S62 | 531996 | page$1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/05/12 09:32 |
| S63 | 8 | US-5237508-$.DID. US-4958292-$.DID. US-4802094-$.DID. US-6269354-$.DID. (US-6266668-$.DID. US-6262678-$.DID. US-6249755-$.DID. US-6216119-$.DID. US-5892808-$.DID. US-5835902-$.DID. US-5761383-$.DID. US-5748847-$.DID. US-5586033-$.DID. US-5528516-$.DID. US-5467428-$.DID. US-5448684-$.DID. US-5390261-$.DID. US-5376963-$.DID. US-5355435-$.DID. US-5253329-$.DID. US-5251268-$.DID. US-5214745-$.DID. US-4876731-$.DID. WO-0072449$.did. WO-9854653$. did. WO-9843159$.did. US-4874963-$.DID. US-4642782-$.DID. US-4660166-$.DID.) and page$1 | US-PGPUB; USPAT; EPO | OR | ON | 2004/05/12 09:55 |
| S64 | 595837 | pag$3 beep$3 buzz$3 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/05/12 09:55 |

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| S65 | 5 | US-5237508-$.DID.<br>US-4958292-$.DID.<br>US-4802094-$.DID.<br>US-6269354-$.DID.<br>(US-6266668-$.DID.<br>US-6262678-$.DID.<br>US-6249755-$.DID.<br>US-6216119-$.DID.<br>US-5892808-$.DID.<br>US-5835902-$.DID.<br>US-5761383-$.DID.<br>US-5748847-$.DID.<br>US-5586033-$.DID.<br>US-5528516-$.DID.<br>US-5467428-$.DID.<br>US-5448684-$.DID.<br>US-5390261-$.DID.<br>US-5376963-$.DID.<br>US-5355435-$.DID.<br>US-5253329-$.DID.<br>US-5251268-$.DID.<br>US-5214745-$.DID.<br>US-4876731-$.DID.<br>WO-0072449$.did. WO-9854653$.<br>did. WO-9843159$.did.<br>US-4874963-$.DID.<br>US-4642782-$.DID.<br>US-4660166-$.DID.) and<br>US-5467428-A.DID. | US-PGPUB;<br>USPAT;<br>EPO | OR | ON | 2004/05/12 09:55 |

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| S66 | 0 | (US-5237508-$.DID.<br>US-4958292-$.DID.<br>US-4802094-$.DID.<br>US-6269354-$.DID.<br>(US-6266668-$.DID.<br>US-6262678-$.DID.<br>US-6249755-$.DID.<br>US-6216119-$.DID.<br>US-5892808-$.DID.<br>US-5835902-$.DID.<br>US-5761383-$.DID.<br>US-5748847-$.DID.<br>US-5586033-$.DID.<br>US-5528516-$.DID.<br>US-5467428-$.DID.<br>US-5448684-$.DID.<br>US-5390261-$.DID.<br>US-5376963-$.DID.<br>US-5355435-$.DID.<br>US-5253329-$.DID.<br>US-5251268-$.DID.<br>US-5214745-$.DID.<br>US-4876731-$.DID.<br>WO-0072449$.did. WO-9854653$.<br>did. WO-9843159$.did.<br>US-4874963-$.DID.<br>US-4642782-$.DID.<br>US-4660166-$.DID.) and<br>US-5467428-A.DID.) not<br>(US-5237508-$.DID.<br>US-4958292-$.DID.<br>US-4802094-$.DID.<br>US-6269354-$.DID.<br>(US-6266668-$.DID.<br>US-6262678-$.DID.<br>US-6249755-$.DID.<br>US-6216119-$.DID.<br>US-5892808-$.DID.<br>US-5835902-$.DID.<br>US-5761383-$.DID.<br>US-5748847-$.DID.<br>US-5586033-$.DID.<br>US-5528516-$.DID.<br>US-5467428-$.DID.<br>US-5448684-$.DID.<br>US-5390261-$.DID.<br>US-5376963-$.DID.<br>US-5355435-$.DID.<br>US-5253329-$.DID.<br>US-5251268-$.DID.<br>US-5214745-$.DID.<br>US-4876731-$.DID.<br>WO-0072449$.did. WO-9854653$.<br>did. WO-9843159$.did.<br>US-4874963-$.DID.<br>US-4642782-$.DID.<br>US-4660166-$.DID.) and page$1) | US-PGPUB;<br>USPAT;<br>EPO | OR | ON | 2004/05/12 10:05 |

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| S67 | 0 | hamalainen.in. and henriksson.in. and (pag$3 beep$3 buzz$3) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/05/12 10:02 |
| S68 | 13 | (artificial adj neural adj network) and (pattern$1 same recogni$4 same classif$7) and (expert$1 adj system$1) and (knowledge adj base$1) and (pag$3 beep$3 buzz$3) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/05/12 10:03 |
| S69 | 3 | ((expert$1 adj system$1) same (knowledge adj base$1)) and ((artificial adj neural adj network) same (pattern$1 same recogni$4 same classif$7)) and (pag$3 beep$3 buzz$3) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/05/12 10:03 |
| S70 | 114 | 706/20.ccls. and (pag$3 beep$3 buzz$3) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/05/12 10:32 |

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| S71 | 13 | ((artificial adj neural adj network) and (pattern$1 same recogni$4 same classif$7) and (expert$1 adj system$1) and (knowledge adj base$1) and (pag$3 beep$3 buzz$3)) not (US-5237508-$.DID. US-4958292-$.DID. US-4802094-$.DID. US-6269354-$.DID. (US-6266668-$.DID. US-6262678-$.DID. US-6249755-$.DID. US-6216119-$.DID. US-5892808-$.DID. US-5835902-$.DID. US-5761383-$.DID. US-5748847-$.DID. US-5586033-$.DID. US-5528516-$.DID. US-5467428-$.DID. US-5448684-$.DID. US-5390261-$.DID. US-5376963-$.DID. US-5355435-$.DID. US-5253329-$.DID. US-5251268-$.DID. US-5214745-$.DID. US-4876731-$.DID. WO-0072449$.did. WO-9854653$. did. WO-9843159$.did. US-4874963-$.DID. US-4642782-$.DID. US-4660166-$.DID.) and page$1) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/05/12 10:05 |

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| S72 | 8 | (US-5237508-$.DID. US-4958292-$.DID. US-4802094-$.DID. US-6269354-$.DID. (US-6266668-$.DID. US-6262678-$.DID. US-6249755-$.DID. US-6216119-$.DID. US-5892808-$.DID. US-5835902-$.DID. US-5761383-$.DID. US-5748847-$.DID. US-5586033-$.DID. US-5528516-$.DID. US-5467428-$.DID. US-5448684-$.DID. US-5390261-$.DID. US-5376963-$.DID. US-5355435-$.DID. US-5253329-$.DID. US-5251268-$.DID. US-5214745-$.DID. US-4876731-$.DID. WO-0072449$.did. WO-9854653$. did. WO-9843159$.did. US-4874963-$.DID. US-4642782-$.DID. US-4660166-$.DID.) and page$1) not ((artificial adj neural adj network) and (pattern$1 same recogni$4 same classif$7) and (expert$1 adj system$1) and (knowledge adj base$1) and (pag$3 beep$3 buzz$3)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/05/12 10:05 |

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| S73 | 3 | (US-5237508-$.DID.<br>US-4958292-$.DID.<br>US-4802094-$.DID.<br>US-6269354-$.DID.<br>(US-6266668-$.DID.<br>US-6262678-$.DID.<br>US-6249755-$.DID.<br>US-6216119-$.DID.<br>US-5892808-$.DID.<br>US-5835902-$.DID.<br>US-5761383-$.DID.<br>US-5748847-$.DID.<br>US-5586033-$.DID.<br>US-5528516-$.DID.<br>US-5467428-$.DID.<br>US-5448684-$.DID.<br>US-5390261-$.DID.<br>US-5376963-$.DID.<br>US-5355435-$.DID.<br>US-5253329-$.DID.<br>US-5251268-$.DID.<br>US-5214745-$.DID.<br>US-4876731-$.DID.<br>WO-0072449$.did. WO-9854653$.<br>did. WO-9843159$.did.<br>US-4874963-$.DID.<br>US-4642782-$.DID.<br>US-4660166-$.DID.) and page$1)<br>not (US-5237508-$.DID.<br>US-4958292-$.DID.<br>US-4802094-$.DID.<br>US-6269354-$.DID.<br>(US-6266668-$.DID.<br>US-6262678-$.DID.<br>US-6249755-$.DID.<br>US-6216119-$.DID.<br>US-5892808-$.DID.<br>US-5835902-$.DID.<br>US-5761383-$.DID.<br>US-5748847-$.DID.<br>US-5586033-$.DID.<br>US-5528516-$.DID.<br>US-5467428-$.DID.<br>US-5448684-$.DID.<br>US-5390261-$.DID.<br>US-5376963-$.DID.<br>US-5355435-$.DID.<br>US-5253329-$.DID.<br>US-5251268-$.DID.<br>US-5214745-$.DID.<br>US-4876731-$.DID.<br>WO-0072449$.did. WO-9854653$.<br>did. WO-9843159$.did.<br>US-4874963-$.DID.<br>US-4642782-$.DID.<br>US-4660166-$.DID.) and<br>US-5467428-A.DID.) | US-PGPUB;<br>USPAT;<br>EPO | OR | ON | 2004/05/12 10:06 |

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| S74 | 8 | (US-5237508-$.DID. US-4958292-$.DID. US-4802094-$.DID. US-6269354-$.DID. (US-6266668-$.DID. US-6262678-$.DID. US-6249755-$.DID. US-6216119-$.DID. US-5892808-$.DID. US-5835902-$.DID. US-5761383-$.DID. US-5748847-$.DID. US-5586033-$.DID. US-5528516-$.DID. US-5467428-$.DID. US-5448684-$.DID. US-5390261-$.DID. US-5376963-$.DID. US-5355435-$.DID. US-5253329-$.DID. US-5251268-$.DID. US-5214745-$.DID. US-4876731-$.DID. WO-0072449$.did. WO-9854653$. did. WO-9843159$.did. US-4874963-$.DID. US-4642782-$.DID. US-4660166-$.DID.) and page$1) not (((expert$1 adj system$1) same (knowledge adj base$1)) and ((artificial adj neural adj network) same (pattern$1 same recogni$4 same classif$7)) and (pag$3 beep$3 buzz$3)) | US-PGPUB; USPAT; EPO | OR | ON | 2004/05/12 10:06 |

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| S75 | 8 | (US-5237508-$.DID. US-4958292-$.DID. US-4802094-$.DID. US-6269354-$.DID. (US-6266668-$.DID. US-6262678-$.DID. US-6249755-$.DID. US-6216119-$.DID. US-5892808-$.DID. US-5835902-$.DID. US-5761383-$.DID. US-5748847-$.DID. US-5586033-$.DID. US-5528516-$.DID. US-5467428-$.DID. US-5448684-$.DID. US-5390261-$.DID. US-5376963-$.DID. US-5355435-$.DID. US-5253329-$.DID. US-5251268-$.DID. US-5214745-$.DID. US-4876731-$.DID. WO-0072449$.did. WO-9854653$. did. WO-9843159$.did. US-4874963-$.DID. US-4642782-$.DID. US-4660166-$.DID.) and page$1) not (706/20.ccls. and (pag$3 beep$3 buzz$3)) | US-PGPUB; USPAT; EPO | OR | ON | 2004/05/12 10:06 |
| S76 | 135 | 702/183.ccls. and (pag$3 beep$3 buzz$3) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/05/12 10:32 |
| S77 | 10789 | @ad>="20040510" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/11/23 17:09 |
| S78 | 524 | 706/20.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/11/23 17:14 |
| S79 | 1 | S78 and S77 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/11/23 17:14 |

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| S80 | 30849 | "702"/$.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/11/23 17:14 |
| S81 | 56 | S80 and S77 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/11/23 17:14 |
| S82 | 659 | 702/183.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/11/23 17:14 |
| S83 | 3 | S82 and S77 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/11/23 17:15 |
| S84 | 54 | S79 xor S81 xor S83 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/11/23 17:34 |
| S85 | 891901 | report$3 xor alarm$3 xor messag$3 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/11/23 17:35 |
| S86 | 265 | 702/30.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/11/23 17:35 |
| S87 | 265 | 702/81.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/11/23 17:35 |
| S88 | 352 | 702/84.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/11/23 17:36 |
| S89 | 788 | S86 xor S87 xor S88 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/11/23 17:36 |

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| S90 | 272 | S85 and S89 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/11/23 17:49 |
| S91 | 38 | (artificial adj neural adj network) and (pattern$1 same recogni$4 same classif$7) and (expert$1 adj system$1) and (knowledge adj base$1) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/11/23 17:38 |
| S92 | 104 | (artificial adj neural adj network) same (expert$1 adj system$1) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/11/23 17:38 |
| S93 | 14 | ((expert$1 adj system$1) same (knowledge adj base$1)) and ((artificial adj neural adj network) same (pattern$1 same recogni$4 same classif$7)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/11/23 17:38 |
| S94 | 116 | S91 xor S92 xor S93 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/11/23 17:48 |
| S95 | 0 | S90 and S94 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/11/23 17:47 |
| S96 | 168 | S90 and @ad<="20000926" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/11/23 17:49 |
| S97 | 67 | S94 and @ad<="20000926" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/11/23 17:49 |

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
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| L1 | 10789 | @ad>="20040510" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/11/23 17:09 |
| L2 | 524 | 706/20.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/11/23 17:14 |
| L3 | 1 | L2 and 1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/11/23 17:14 |
| L4 | 30849 | "702"/$.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/11/23 17:14 |
| L5 | 56 | L4 and 1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/11/23 17:14 |
| L6 | 659 | 702/183.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/11/23 17:14 |
| L7 | 3 | L6 and 1 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/11/23 17:15 |
| L8 | 54 | 3 xor 5 xor 7 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/11/23 17:15 |